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REMARKS

Claims 5, 18, 20, 21 and 22 are amended. Claims 24 - 26 are added and no claims are cancelled. Claims 1 - 26 are pending.

The Examiner has objected to claim 5 for having a typographical error for the term "moduleis." Claim 5 has been modified to recast this term as the phrase --module is- -. The applicant respectfully submits that claim 5 is now in proper form.

The Examiner has objected to claim 18 for being indefinite for the phrase "second-format packet header of the first-format header." This phrase has been amended to recite - -second-format packet header of the second format packet- -. Other amendments have been made claim 18 to more explicitly set forth the intended subject matter which was already implicitly recited. Accordingly, these amendments are intended to address clarity and not intended to narrow the scope of the claim for the purpose of distinguishing the claim over the prior art. The applicant respectfully submits that claim 18 is now in proper form.

The Examiner has objected to claim 20 as using the phrase "padding cells." This phrase has been amended to recite - -padding bytes- - as suggested by the Examiner. The applicant respectfully submits that claim 20 is now in proper form.

The Examiner rejected claims 1 - 5, 9 - 15, 18 and 23 as being anticipated by U.S. Patent No. 6,512,773 to Scott (the "'773 patent") under 35 U.S.C. § 102 (e). This rejection is respectfully traversed.

The specification of the present application relates to, among other things, a technique for translating fixed length units of data in a first, fixed length format for transmission using a first protocol to packets for transmission according to a second protocol. In particular, the specification describes a process for compressing multiple fixed length ATM cells into a MAC packet for transmission to an end user through a broadband link. In particular, the specification illustrates a technique to compress user data in multiple ATM cells addressed to the user into a single by omitting redundant overhead data in the multiple ATM cells. The compressed user data may then be transmitted to the user in the payload of a single MAC packet addressed to the user over the link. [specification, page 14, lines 4 - 21] However, this is merely an example of how user data in fixed length units of data may be compressed for transmission in data packets according to a second protocol.

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The '773 patent appears to show a technique for formatting data received in a protocol data unit

(PDU) into fixed length ATM cells. In particular, the '773 describes with reference to Figures 4A through

5C how a PDU containing a header 104a, and a payload 105a containing user data and an ATM header 91

may be expanded to provide multiple fixed length ATM cells 106.

Claim 1 of the present application distinguishes over the '773 patent by reciting, inter alia:

a MAC reassembly module configured to format data from the ATM segmentation module and
the MAC header module into an outgoing MAC data packet having a header and *a payload
which represents incoming data from one or more ATM cells sharing a common destination.*
[emphasis added]

The '773 patent, merely illustrating a technique for decomposing a single PDU into multiple ATM

cells for transmission according to a destination identified in the PDU, does disclose, suggest or make

obvious formatting "data from the ATM segmentation module and the MAC header module into an

outgoing MAC data packet having a header and *a payload which represents incoming data from one or*

more ATM cells sharing a common destination" as recited in claim 1. Accordingly, the applicants

respectfully submit that claim 1, and claims 2 – 8 depending therefrom, distinguish over the '773 patent.

Similarly, claim 9 of the present application distinguishes over the '773 patent by reciting, inter

alia:

entering payload data from the plurality of incoming packets [formatted in the first fixed-length
format] into a payload section of the second-format packet, and

omitting the common addressing data from the payload of the second-format packet.

Merely illustrating the decomposition of a single PDU into multiple ATM cells, the '773 patent

does not disclose, suggest or make obvious "entering payload data from the plurality of [fixed length]

incoming packets into a payload section of the second-format packet" as recited in claim 9. Accordingly,

the applicants respectfully submit that claim 9, and claims 10 through 17 depending therefrom,

distinguish over the '773 patent.

Similarly, claims 18 – 20 of the present application distinguish over the '773 patent by reciting,

inter alia:

representing all user data from the one or more first-format packets [in the first fixed-length
format] in a payload of the second-format packet; and

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omitting from the second-format payload all first-format header overhead data mapped into the second-format packet header of the second-format packet.

Merely illustrating the decomposition of a single PDU into multiple ATM cells, the '773 patent

does not disclose, suggest or make obvious "representing all user data from the one or more first-format

packets [in the first fixed-length format] in a payload of the second-format packet" as recited in claims 18

– 20. Accordingly, the applicants respectfully submit that claims 18 – 20 distinguish over the '773 patent.

Similarly, claim 21 distinguishes over the '773 patent by reciting, inter alia:

a network connection accepting incoming data in packets from a wide area network in a first-packet format, the first-packet format being a fixed-length format;

a translation controller which reduces data from headers or from trailers of the incoming packets in a process of translating the incoming data into a second packet format, the second packet format being a variable length format;

Merely illustrating the decomposition of a single PDU into multiple ATM cells, the '773 patent

does not disclose, suggest or make obvious "a translation controller which reduces data from headers or

from trailers of the incoming packets [in a fixed-length format] in a process of translating the incoming

data into a second packet format" as recited in claims 21. Accordingly, the applicants respectfully submit

that claims 21, and new claims 24 - 26 depending therefrom, distinguish over the '773 patent.

Similarly, claim 22 distinguishes over the '773 patent by reciting, inter alia:

concatenating representations of *header-reduced cell data from the one or more of the plurality of ATM cells* and a representation of the retained trailer cell data bytes to form a payload of a variable-length transmission packet. [emphasis added]

Merely illustrating the decomposition of a single PDU into multiple ATM cells, the '773 patent

does not disclose, suggest or make obvious "concatenating representations of *header-reduced cell data*

from the one or more of the plurality of ATM cells"as recited in claim 22. Accordingly, the applicants

respectfully submit that claim 22 distinguishes over the '773 patent.

Similarly, claim 23 distinguishes over the '773 patent by reciting, inter alia:

obtaining a plurality of incoming packets formatted in the *first fixed-length format*, each of the incoming packets having identical headers . . . ;

preparing a second-format packet to *convey data from the plurality of incoming packets* by selecting, dependent upon the type of switching required as established during block transfer setup; [emphasis added]

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Merely illustrating the decomposition of a single PDU into multiple ATM cells, the '773 patent

does not disclose, suggest or make obvious "preparing a second-format packet to *convey data from the*

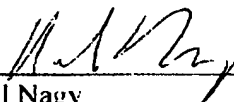*plurality of incoming packets [formatted in the first fixed-length format]*" as recited in claim 23.

Accordingly, the applicants respectfully submit that claim 23 distinguishes over the '773 patent.

In view of the foregoing amendments and remarks, the applicants respectfully submit that this

application is in condition for allowance. However, if the Examiner finds an reason why this application

is not in condition for allowance, the applicants request to contact the undersigned attorney by telephone

at (310) 541-7832 to discuss the application.

Respectfully submitted,

Berkeley Law and Technology Group, LLC

Dated: Sept. 30, 2004 _____

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